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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete if Known	
Application Number	09/963,983
Filing Dat	09/25/2001
First Named Inventor	Zumbrunnen
Art Unit	1723
Examiner Name	unknown
Attorney Docket Number	CXU-336PA

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number: Number	Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A	US- 4,734,343		03/29/1988	Berthier et al.	entire document
	B	US- 5,551,777		09/03/1996	Tjahjadi et al.	entire document
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FOREIGN PATENT DOCUMENTS

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Examiner Signature		Date Considered	05 Aug 2003

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	C	Michael Ellison, David Zumbrunnen, Bridgette Gomillion and Jiong Wang -- "CHAOTIC MIXING IN EXTRUSION-BASED MELT SPINNING OF FIBERS" National Textile Center Annual Report: Nov. 1999 entire document	
	D	Michael Ellison and David Zumbrunnen -- "CHAOTIC MIXING IN EXTRUSION BASED MELT SPINNING OF FIBERS" -- National Textile Center Research Briefs: April 1999 entire document	
	E	Michael Ellison and David Zumbrunnen -- "CHAOTIC MIXING IN EXTRUSION BASED MELT SPINNING OF FIBERS" National Textile Center Research Briefs: August 1998 entire document	
	F	Michael Ellison and David Zumbrunnen -- "CHAOTIC MIXING IN EXTRUSION BASED MELT SPINNING OF FIBERS" National Textile center research Briefs: March 1998 entire document	
	G	Michael Ellison and David Zumbrunnen -- "CHAOTIC MIXING IN EXTRUSION BASED MELT SPINNING OF FIBERS" National Textile center research Briefs: August 1997 entire document	
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	J	Michael Ellison and David Zumbrunnen -- "CHAOTIC MIXING IN EXTRUSION BASED MELT SPINNING OF FIBERS" National Textile center research Briefs: Nov. 1996 entire document	
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Examiner Signature		Date Considered	05 Aug 2003

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Sheet 3 of 4

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Filing Date	09/25/2001
First Named Inventor	Zumbrunnen
Group Art Unit	1723
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	N	R.I. Danescu and D.A. Zumbrunnen --"COMPUTATIONAL SIMULATION OF THE IN SITU FORMATION IN MELTS OF ELECTRICAL PATHWAYS AMONG PARTICLES TRANSPORTED BY TWO DIMENSIONAL CHAOTIC MIXING" Proceedings of ASME Heat Transfer Division Vol. 4, 1998 Entire document	
	O	R.I. Danescu and David Zumbrunnen -- "CREATION OF ELECTRICALLY CONDUCTING PLASTICS BY CHAOTIC MIXING" ANTEC Conference: 1998	
	P	R.I. Danescu -- "CHAOTIC MIXING AS A MEANS TO CREATE ELECTRICALLY CONDUCTING NETWORKS IN PLASTICS" Doctorial Dissertation Entire document	
	Q	Michael Ellison -- "CHAOS IN POLYMER PHASE TRANSITIONS" National Textile Center Annual Report: August 1995 Entire document	
	R	Michael Ellison, Bridgette Gomillion, David Zumbrunnen and Jiong Wang -- "CHAOTIC MIXING IN EXTRUSION-BASED MELT SPINNING OF FIBERS" National Textile Center Annual Report: 1997 Entire document	
	S	Michael Ellison, Bridgette Gomillion, David Zumbrunnen and Jiong Wang -- "CHAOTIC MIXING IN EXTRUSION-BASED MELT SPINNING OF FIBERS" National Textile Center Annual Report: Nov. 1998 Entire document	
	T	Michael Ellison, Bridgette Gomillion, David Zumbrunnen and Jiong Wang -- "CHAOTIC MIXING IN EXTRUSION-BASED MELT SPINNING OF FIBERS" National Textile Center Annual Report: Nov. 1999 Entire document	
	U	B.L. Gomillion, J. Wang, M.S. Ellison and D.A. Zumbrunnen -- "THREE-DIMENSIONAL CONTINUOUS CHAOTIC MIXING TO PRODUCE STRUCTURED FIBER COMPOSITS IN-SITU" Abstract from papers for 215th ACS National Meeting March 1998 -- Entire document	
	V	Sadhan C. Jana, Guy Metcalfe and J.M. Ottino -- "EXPERIMENTAL AND COMPUTATIONAL STUDIES OF MIXING IN COMPLEX STOKES FLOWS: THE VORTEX MIXING FLOW AND MULTICELLULAR CAVITY FLOWS" J. Fluid Mech. Vol. 269, 1994 -- Entire document	
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	X	D.F. Zhang and D. A. Zumbrunnen -- "CHAOTIC MIXING OF TWO SIMILIAR FLUIDS IN THE PRESENCE OF A THIRD DISSIMILIAR FLUID" AIChE Journal, Vol. 42, No. 12: December 1996 Entire document	/

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 4

Complete if Known	
Application Number	09/963,983
Filing Date	09/25/2001
First Named Inventor	Zumbrunnen
Group Art Unit	1723
Examiner Name	unknown
Attorney Docket Number	CXU-336PA

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
SM	Y	K.C. Miles, B. Nagarajan and D.A. Zumbrunnen --"THREE-DIMENSIONAL CHAOTIC MIXING OF FLUIDS IN A CYLINDRICAL CAVITY" Transactions of the ASME: Dec. 1995 Entire document	
SM	Z	Y.H. Liu and D.A. Zumbrunnen -- "PROGRESSIVE MICROSTRUCTURE DEVELOPMENT BY CHAOTIC MIXING OF LIQUID CRYSTALLINE POLYMERS AND THERMOPLASTICS AND CORRESPONDING TENSILE STRENGTHS" ANTEC Conference: 1998	

Examiner Signature	S M. Nelson	Date Considered	05 Aug 2003

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(supplemental)
(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known	
Application Number	09/963,983
Filing Date	09/25/2001
First Named Inventor	Zumbrunnen
Art Unit	1723
Examiner Name	unknown
Attorney Docket Number	CXU-336PA

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number: Number	Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SW	AA	US- 5,798,077		08-25-1998	Womer et al.	entire document
	BB	US- 5,921,679		07-13-1999	Muzzio et al.	entire document
	CC	US- 5,816,698		10-06-1998	Durina et al.	entire document
	DD	US- 3,426,754		02-11-1969	Bierenbaum et al.	entire document
	EE	US- 3,558,764		01-26-1971	Isaacson et al.	entire document
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	LL	US- 4,833,172		05-23-1989	Schwarz et al.	entire document
SW	MM	US- 5,173,235		12-22-1992	Kamei et al.	entire document
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Sheet 2 of 3

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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	NN	Y.H. LIU and D.A. ZUMBRUNNEN --"Toughness Enhancement In Blends Of Dissimiliar Polymers Due to the In-Situ Formation By Chaotic Mixing Of Fine Scale Extended Structures At Low Minor Phase Concentrations" MD-Vol. 80 ASME 1997 -- Entire Document	
	OO	D.A. ZUMBRUNNEN and Y.H. LIU -- Abstract and photomicrographs Page 202 Vol. 119 Transactions of the ASME May 1997 Entire Document	
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SW	YY	DAVID A. ZUMBRUNNEN -- "Properties and Microstructures Of Composite Materials Produced By Chaotic Mixing" Vol. 14, No.3 Composites Research Briefs 1998 Entire Document	

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